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MAGNETIC OBSERVATIONS. 115

(† *Common-Saffron*), *Fraxinus*—(† *White-Ash*) *Chrysanthemum?* (*St. Anthony's croft*) *Convallaria* († *Solomon's seal*. Different species are used.), *Ulmus*—*Americana?* (* †? *American Elm*) *Osmunda virginiana* (*Virginian Osmunda*, *Fern-Rattle-Snake-root*), *Jussiaea?*—(* † *Wood-Plantain*, *Rattle-Snake-Plantain*) *Hieracium Kalmii* (* † *Rattle-Snake-Plantain*, *Poor-Robin's Plantain*).

Nº. XII.

MAGNETIC OBSERVATIONS,

Made at the University of Cambridge (Massachusetts) in the year 1785,

By Dr. S. WILLIAMS.

| Months. | Days. | Great- est Va- riation. | Days. | Least Varia- tion. | Dif- fer- ence. | Mean Variation at 7 A. M. | Mean Variation at 1½ P. M. | Mean Variation at 9 P. M. |
|-----------------|------------------|-------------------------------|--------------|--------------------------|-----------------------|------------------------------------|-------------------------------------|------------------------------------|
| January | 15 1½ P. M. | 6° 50 | 23 9 P. M. | 6° 28' | 3½ | 6° 36' | 6° 42' | 6° 34' |
| February | 25 1½ P. M. | 6 39 | 23 9 P. M. | 5 49 | 50 | 6 34 | 6 39 | 6 32 |
| March | 1 1½ P. M. | 6 52 | 1 9 P. M. | 6 28 | 24 | 6 36 | 6 39 | 6 36 |
| April | 19 ½ P. M. | 7 12 | 15 9 P. M. | 6 20 | 52 | 6 34 | 6 53 | 6 34 |
| May | 3 1½ P. M. | 7 5 | 2 7 A. M. | 6 28 | 45 | 6 38 | 6 55 | 6 38 |
| June | 7 1½ P. M. | 7 8 | 20 9 P. M. | 6 29 | 39 | 6 44 | 6 57 | 6 40 |
| July | 11 1½ P. M. | 7 11 | 13 7 A. M. | 6 33 | 38 | 6 46 | 7 1 | 6 49 |
| August | 6 1½ P. M. | 7 13 | 31 7 A. M. | 6 25 | 48 | 6 42 | 7 2 | 6 48 |
| Septem. | 11 1½ P. M. | 6 35 | 8 7 A. M. | 6 13 | 42 | 6 32 | 6 46 | 6 34 |
| October | 18 1 P. M. | 7 11 | 5 7 A. M. | 6 27 | 44 | 6 48 | 6 55 | 6 43 |
| Novem. | 27 1 P. M. | 6 59 | 29 9 P. M. | 6 17 | 42 | 6 44 | 6 50 | 6 38 |
| Decem. | 1 1 P. M. | 6 58 | 19 7 A. M. | 6 28 | 30 | 6 43 | 6 50 | 6 39 |
| In the Year. | August 6 and 21. | 7 13 | February 23. | 5 49 | 1 24 | 6 40 | 6 51 | 6 39 |

The above Observations were made with an excellent Variation Instrument, with a twelve Inch Needle.